Mobile Threat Simulator

Realistic, Full-Spectrum, Multi-Threat Simulation & Training Solution

Elbit Systems™
ISTAR & EW - Elisra

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Overview

The Need

In continuously evolving, condensed, multi spectral threat environment, missions of increasing complexity demand constant combat readiness. Realistic and effective training of the operational crews is required to support survivability of crew and platform during combat mission. The main challenge of any operational training is simulation of a realistic threat environment.

The goal is effective training – "Train as you fight".

Ensuring Combat Readiness

Addressing these issues, Elbit Systems EW and SIGINT-Elisra has developed the Mobile Simulation and Training Field. The system creates realistic, full-spectrum, multi-threat simulations of current and future threats: radar-based weapon systems (surface-to-air, anti-aircraft artillery, etc.), MANPADS and laser-guided weapons.

The mobility of the system and its ability to simultaneously simulate multiple threats, enables realistic and accurate training in the threat environment of integrated defense systems.

Main Capabilities

Simulation Functions

- Realistic multi-threats simulation (modern and future threats) - full spectrum coverage
- Mobile and autonomous operation
- Modular and "open system" - user programmable / configurable
- Debriefing capability

Multiple Applications

The system is designed as a joint solution for air force, navy and ground operations.

A variety of applications include the following:

- Operational training
- Test and Evaluation (T&E) of EW systems and suites
- EW solution demonstrations and development verification

Key Features and Advantages

Advanced Multi-Threat Simulation Capabilities

- Full spectrum coverage
  - Radar threats
  - IR missile threats
  - Laser threats
- Threat generation - based on E-REGEV, Elisra's Lab Arena Threat Simulator

- Handles multiple, simultaneous threats
- Simulates a wide range of today's most complex radar signals
- Fully programmable - enabling user independence

Mobile – Stand-Alone
The mobility of the system and the capability to operate independently at any location (on land or at sea) provides the operator with full flexibility to execute dynamic and realistic operational training.

Modular Design
The system's modular and open architecture design provides the following capabilities:
- Adaptable configuration - simple and fast adaptation to specific mission requirements
- Operational modes
  - Single transmitting station
  - Multiple transmitting stations – synchronized by one command & control station
- Growth capability

Tracking Capabilities
- Independent embedded tracking - enables autonomous operation of the system and can include:
  - Day/night cameras
  - Radar
- External input (ACMI, radar, etc.)

Recording & Debriefing
Extensive recording of the entire training exercise and a cutting-edge debriefing capabilities enable Operational Assurance through a comprehensive evaluation of the functioning of the operational crew, the platform and the EW systems.

General
Operational, with a Technology Readiness Level-9, the system can be implemented with either a commercial or military appearance. The simulator is easily customizable and is built for extended endurance.

An EW-Based Knowledge Core
Elbit Systems EW and SIGINT-Elisra is a global leader and provider of advanced EW solutions with decades of experience in a wide range of arenas. Its systems are installed on dozens of platform types around the world - successfully meeting the challenges of modern battlefields. Based on its unique knowledge, experience and capabilities, Elisra has successfully implemented advanced and proven EW and simulation technologies in the design of the Mobile Threat Simulator to facilitate combat readiness.

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Summary of Key Strengths

Simulation Functions

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